

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072517\  
 Data File : BF097046.D  
 Acq On : 25 Jul 2017 23:12  
 Operator : SJ/JU  
 Sample : I4290-01  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-1

Manual Integrations  
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Quant Time: Jul 26 13:04:26 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 14:11:51 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.50  | 152  | 141953   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.78  | 136  | 564727   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.53  | 164  | 232196   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.00 | 188  | 357077   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.62 | 240  | 224790   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 14.97 | 264  | 204845   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.11  | 112  | 973188   | 103.35 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.17  | 99   | 1192619  | 110.94 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.07  | 82   | 703341   | 73.06  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.32 | 330  | 190563   | 103.87 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 8.86  | 172  | 941984   | 68.85  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.59 | 244  | 526489   | 47.75  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 10) Phenol                     | 6.18  | 94   | 48974    | 3.841  | ng    | 93       |
| 49) Dimethylphthalate          | 9.26  | 163  | 104805   | 5.944  | ng    | 99       |
| 70) Phenanthrene               | 11.02 | 178  | 205898   | 10.762 | ng    | 98       |
| 71) Anthracene                 | 11.07 | 178  | 48409    | 2.470  | ng    | 97       |
| 74) Fluoranthene               | 12.20 | 202  | 254739   | 13.591 | ng    | 98       |
| 77) Pyrene                     | 12.43 | 202  | 210898   | 11.460 | ng    | 99       |
| 80) Benzo(a)anthracene         | 13.61 | 228  | 94884    | 6.524  | ng    | 98       |
| 82) Chrysene                   | 13.64 | 228  | 87795    | 6.182  | ng    | 96       |
| 83) Bis(2-ethylhexyl)phthalate | 13.63 | 149  | 26232m   | 2.146  | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene     | 16.20 | 276  | 41392    | 3.399  | ng    | 93       |
| 87) Benzo(b)fluoranthene       | 14.61 | 252  | 104548m  | 8.490  | ng    |          |
| 88) Benzo(k)fluoranthene       | 14.63 | 252  | 29268m   | 2.494  | ng    |          |
| 89) Benzo(a)pyrene             | 14.92 | 252  | 69797    | 6.193  | ng    | 96       |
| 91) Benzo(a,h,i)perylene       | 16.56 | 276  | 37735    | 3.894  | ng    | # 90     |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

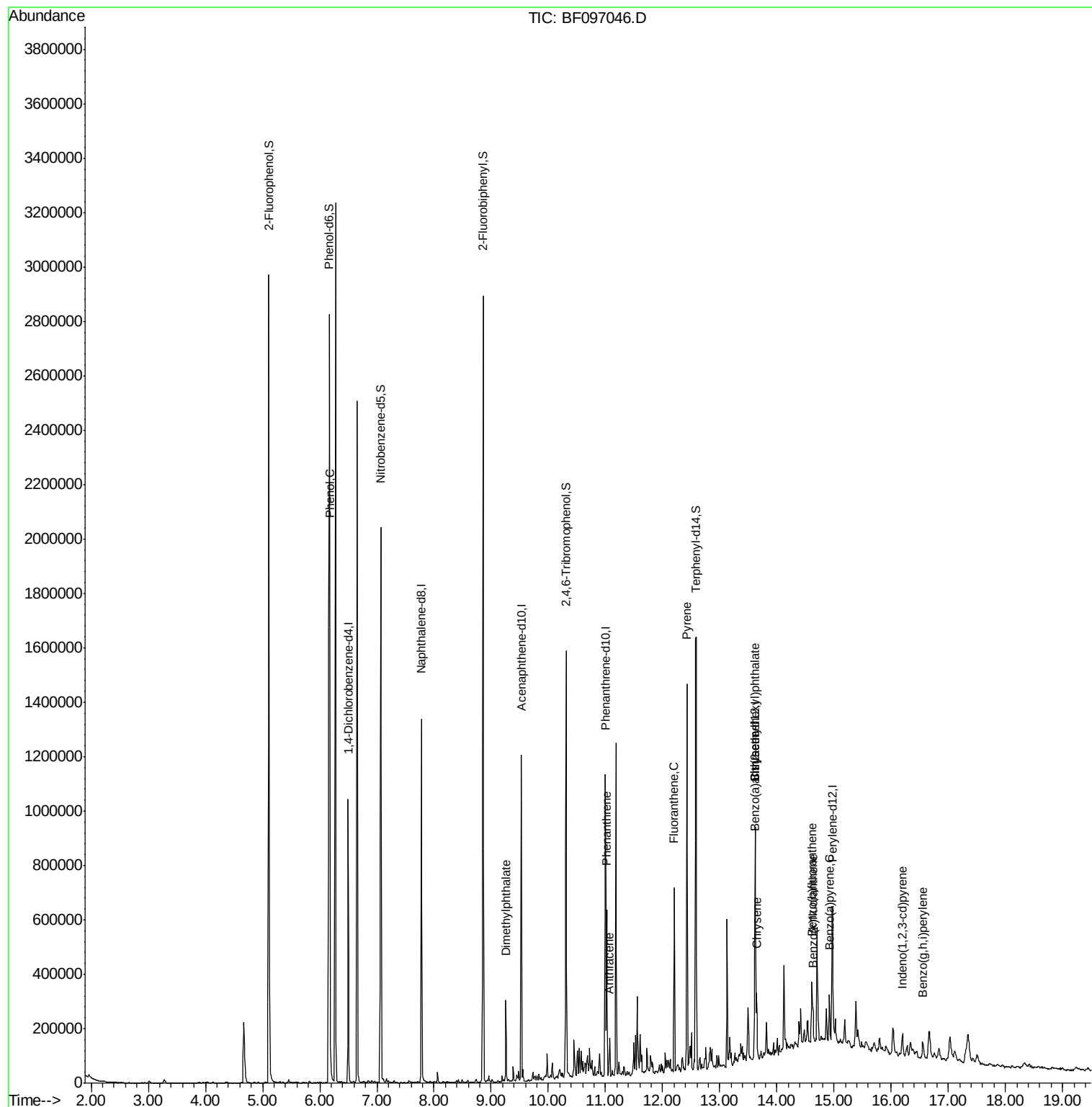
Data Path : Z:\HPCHEM1\BNA F\DATA\BF072517\  
Data File : BF097046.D  
Acq On : 25 Jul 2017 23:12  
Operator : SJ/JU  
Sample : I4290-01  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

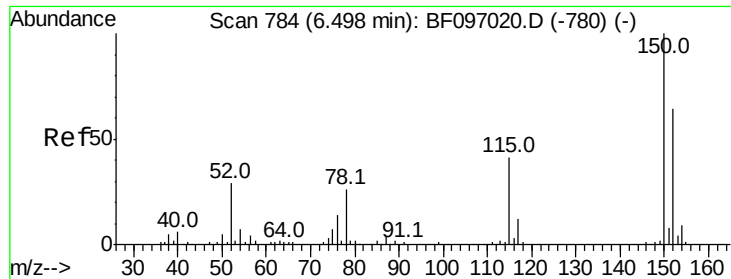
Instrument :  
BNA\_F  
ClientSampled :  
S-1

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Quant Time: Jul 26 13:04:26 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 25 14:11:51 2017  
Response via : Initial Calibration





#1

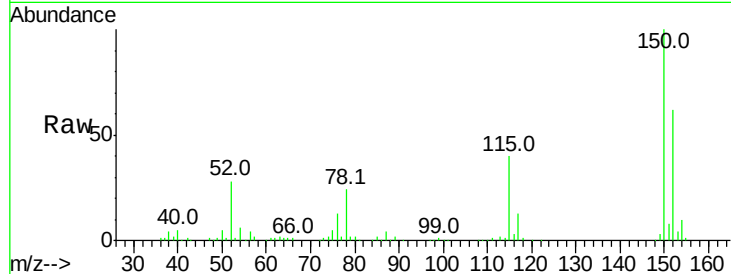
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.50 min Scan# 784  
Delta R.T. -0.00 min  
Lab File: BF097046.D  
Acq: 25 Jul 2017 23:12

Instrument :  
BNA\_F  
ClientSampled :  
S-1

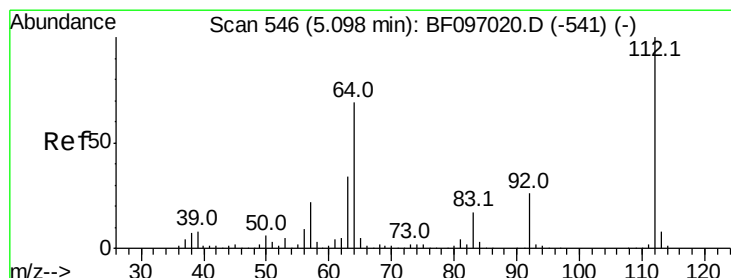
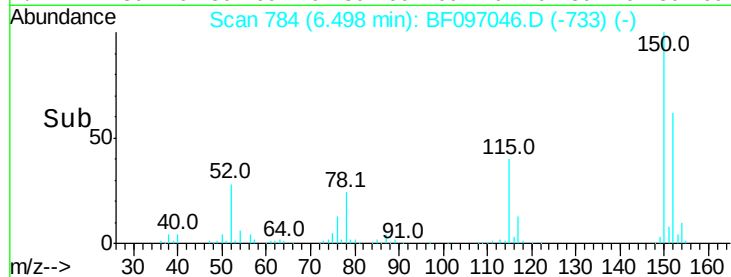
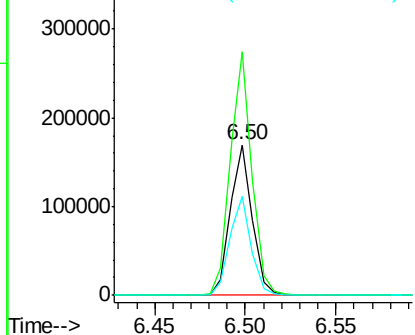
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 161.7 | 126.2 | 189.2 |
| 115     | 65.5  | 52.2  | 78.2  |

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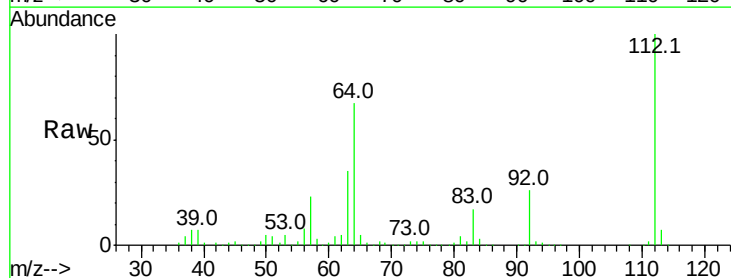
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



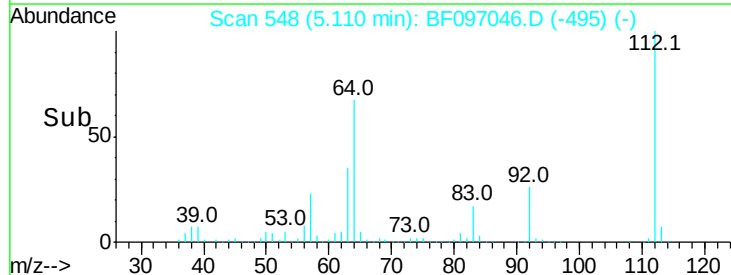
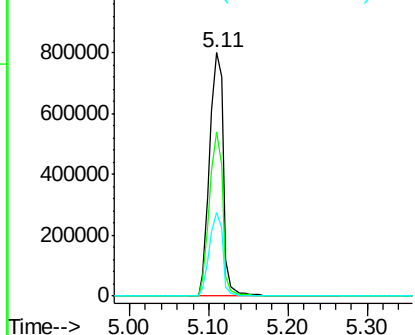
#5

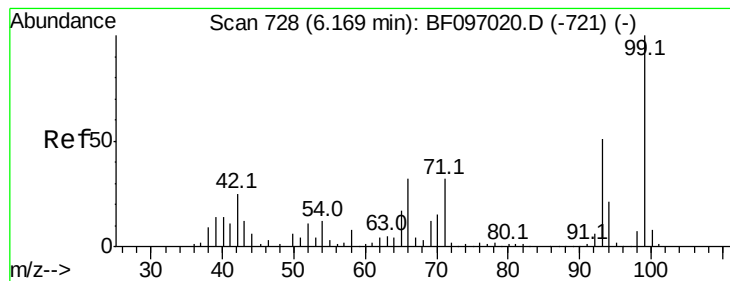
2-Fluorophenol  
Concen: 103.349 ng  
RT: 5.11 min Scan# 548  
Delta R.T. 0.01 min  
Lab File: BF097046.D  
Acq: 25 Jul 2017 23:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.2  | 46.0  | 69.0  |
| 63      | 34.6  | 23.4  | 35.0  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 110.940 ng

RT: 6.17 min Scan# 728

Delta R.T. -0.00 min

Lab File: BF097046.D

Acq: 25 Jul 2017 23:12

Instrument :

BNA\_F

ClientSampled :

S-1

Tot Ion: 99 Resp: 1192619

Ion Ratio Lower Upper

99 100

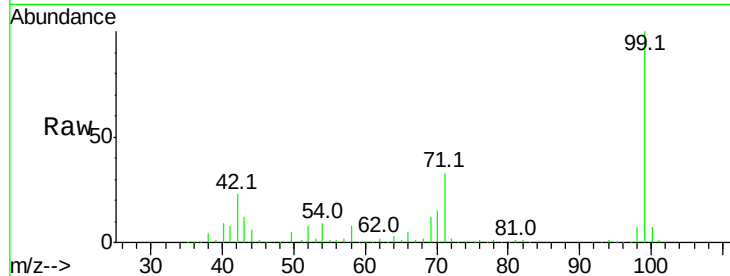
42 23.0 13.5 20.3#

71 33.2 24.5 36.7

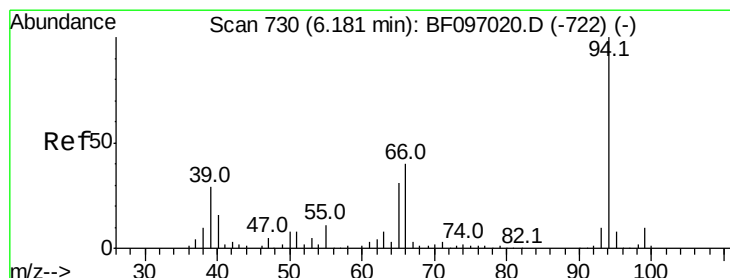
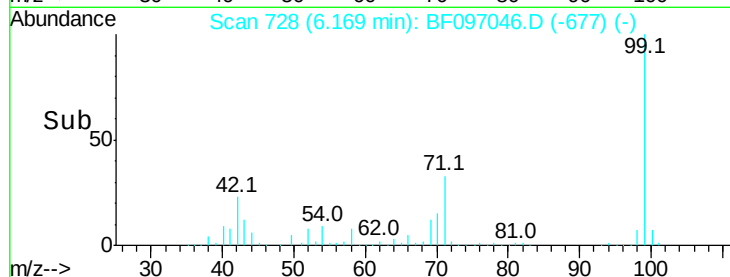
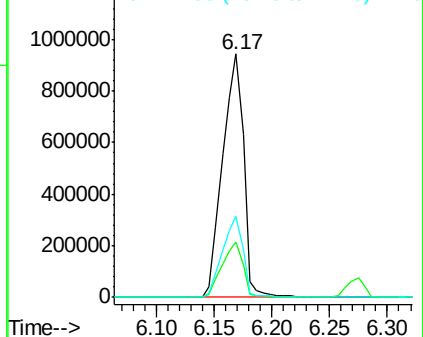
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Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 3.841 ng

RT: 6.18 min Scan# 730

Delta R.T. -0.00 min

Lab File: BF097046.D

Acq: 25 Jul 2017 23:12

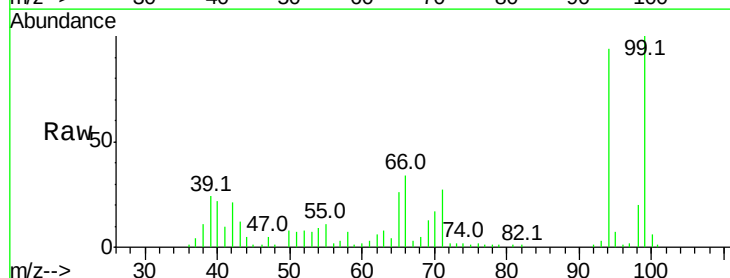
Tgt Ion: 94 Resp: 48974

Ion Ratio Lower Upper

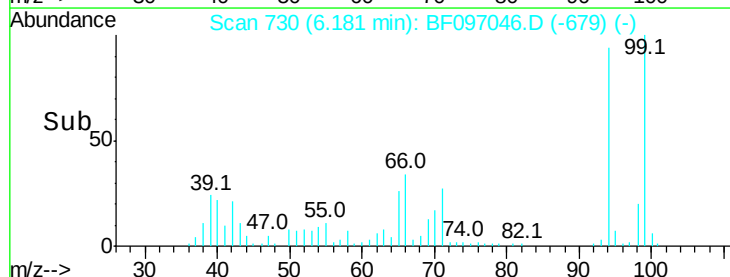
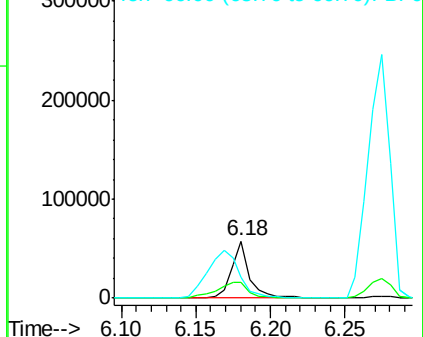
94 100

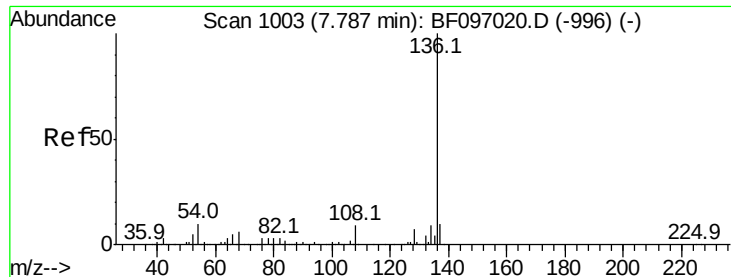
65 27.9 9.9 49.9

66 36.8 23.1 63.1



Abundance Ion 94.00 (93.70 to 94.70): BF0  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 66.00 (65.70 to 66.70): BF0





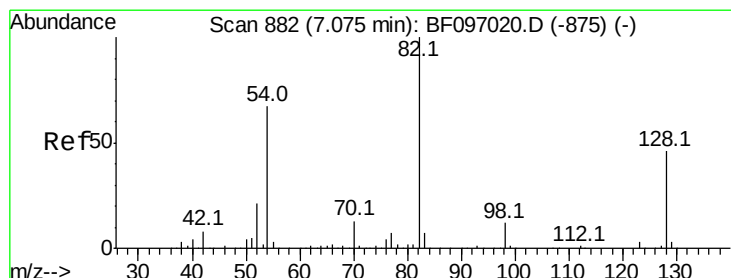
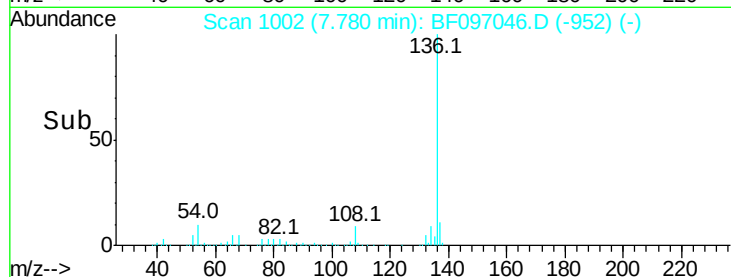
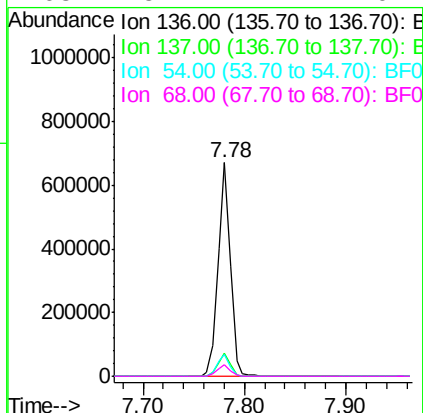
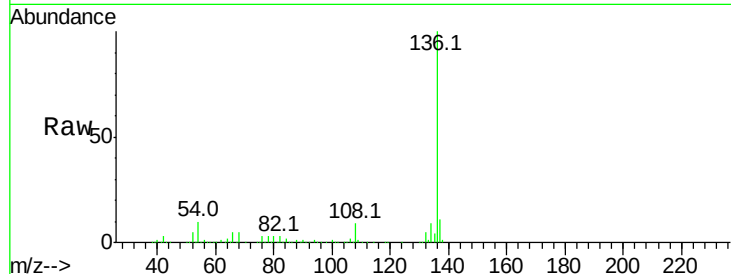
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.78 min Scan# 1002  
Delta R.T. -0.01 min  
Lab File: BF097046.D  
Acq: 25 Jul 2017 23:12

Instrument :  
BNA\_F  
ClientSampled :  
S-1

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 10.9  | 8.5  | 12.7  |       |
| 54      | 10.0  | 4.9  | 7.3#  |       |
| 68      | 5.4   | 4.1  | 6.1   |       |

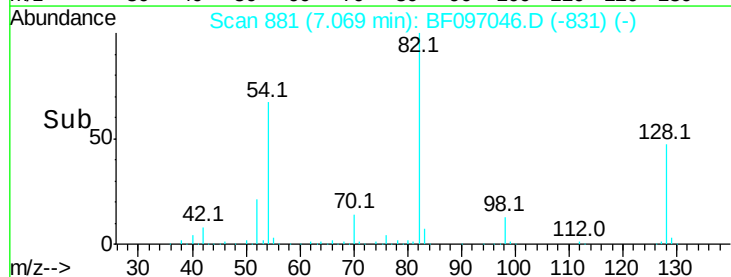
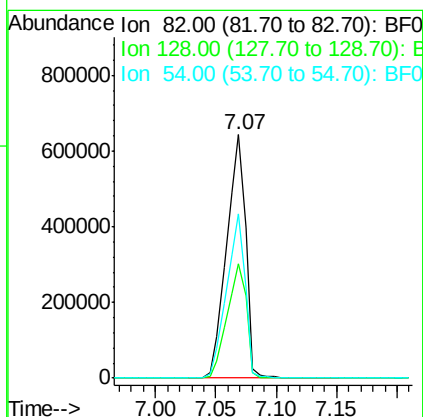
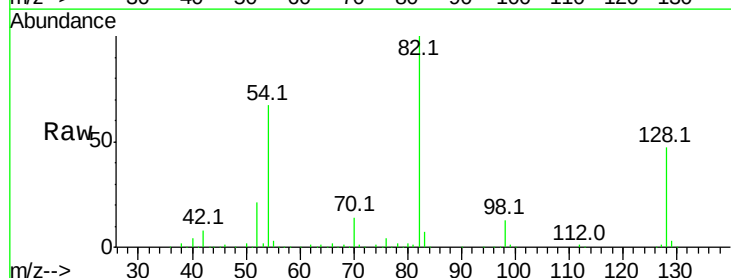
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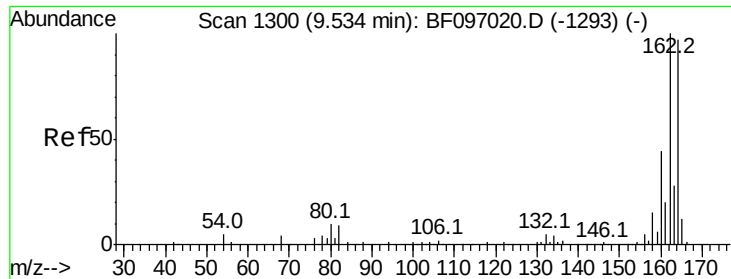
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#23  
Nitrobenzene-d5  
Concen: 73.063 ng  
RT: 7.07 min Scan# 881  
Delta R.T. -0.01 min  
Lab File: BF097046.D  
Acq: 25 Jul 2017 23:12

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 46.9  | 34.0 | 51.0  |       |
| 54      | 67.3  | 42.2 | 63.2# |       |





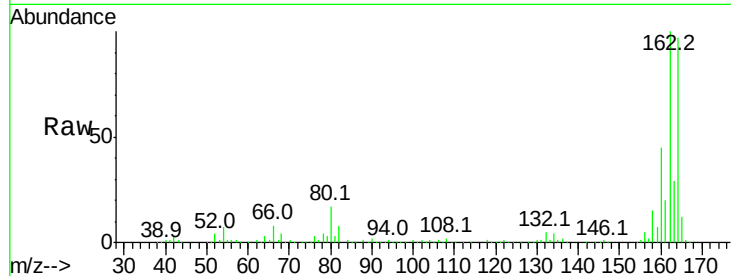
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.53 min Scan# 1299  
 Delta R.T. -0.01 min  
 Lab File: BF097046.D  
 Acq: 25 Jul 2017 23:12

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-1

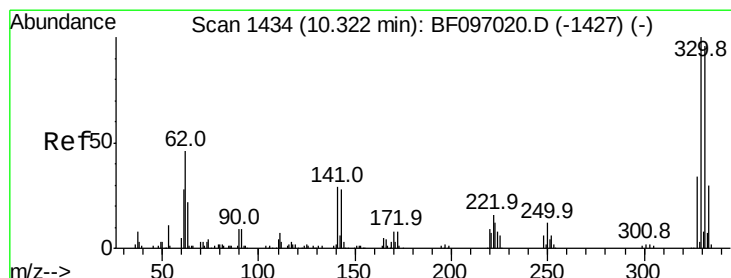
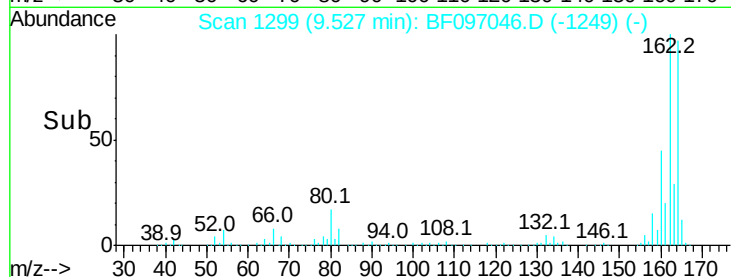
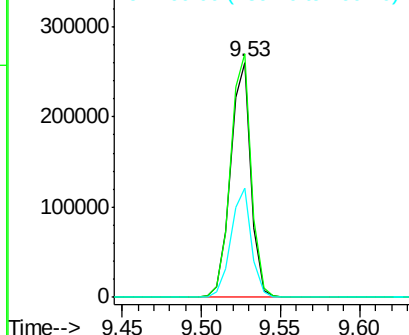
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.6 | 82.6  | 123.8 |
| 160     | 46.6  | 36.2  | 54.2  |

Manual Integrations  
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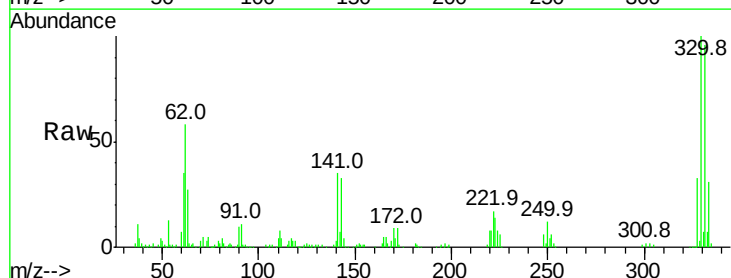


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

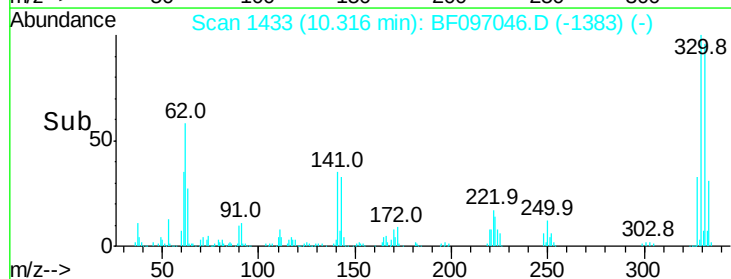
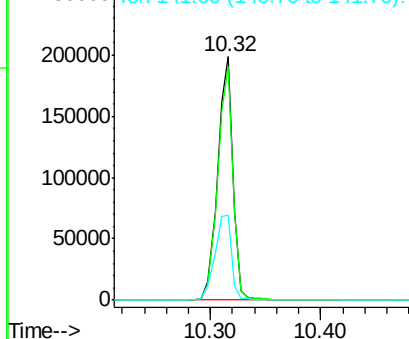


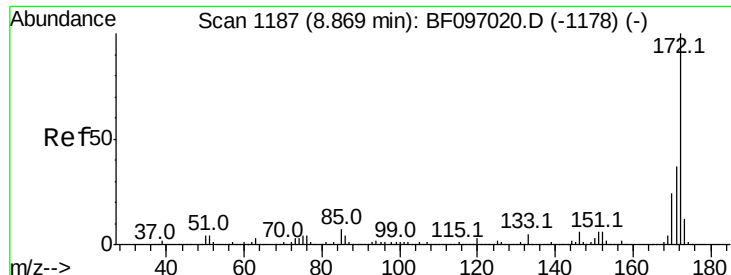
#41  
 2,4,6-Tribromophenol  
 Concen: 103.873 ng  
 RT: 10.32 min Scan# 1433  
 Delta R.T. -0.01 min  
 Lab File: BF097046.D  
 Acq: 25 Jul 2017 23:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.6  | 76.6  | 115.0 |
| 141     | 38.7  | 31.4  | 47.2  |



Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E





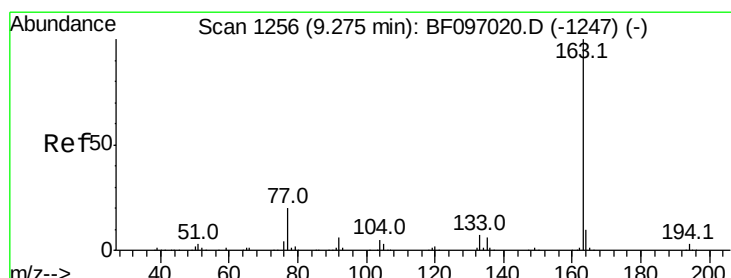
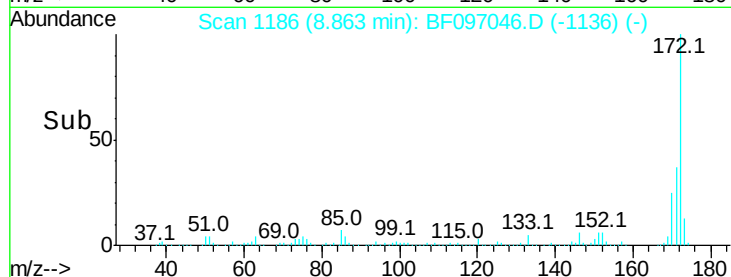
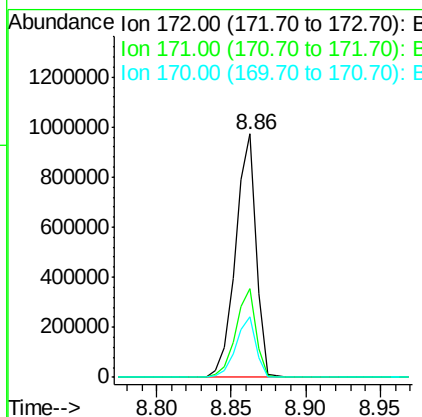
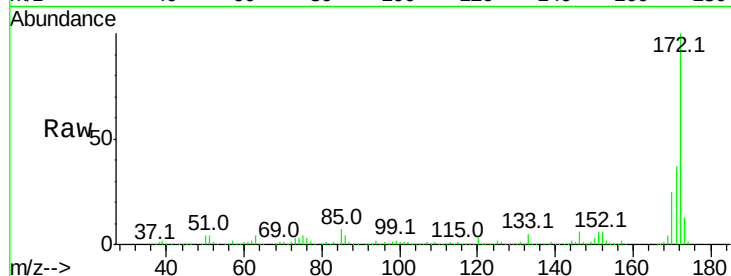
#44  
2-Fluorobiphenyl  
Concen: 68.849 ng  
RT: 8.86 min Scan# 1186  
Delta R.T. -0.01 min  
Lab File: BF097046.D  
Acq: 25 Jul 2017 23:12

Instrument :  
BNA\_F  
ClientSampled :  
S-1

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 941984 |       |       |
| 171     | 36.6  |        | 29.6  | 44.4  |
| 170     | 24.9  |        | 19.8  | 29.8  |

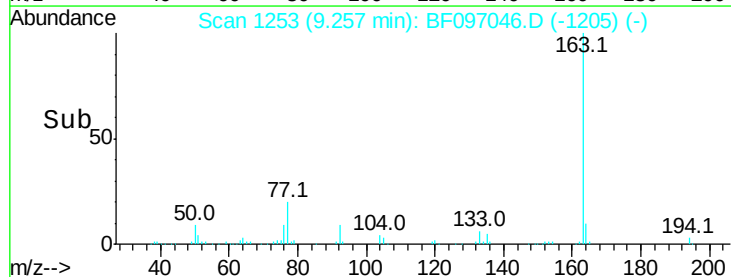
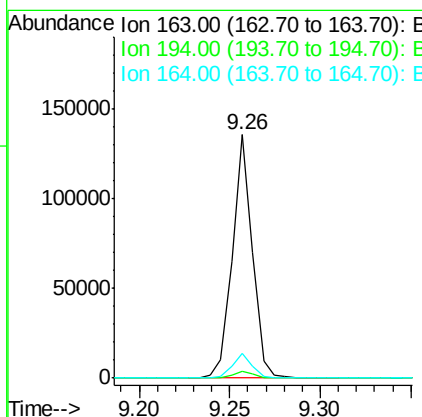
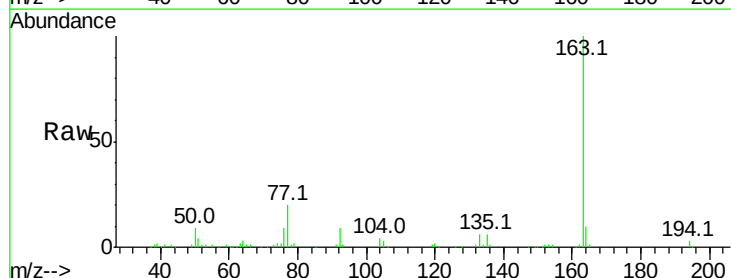
Manual Integrations  
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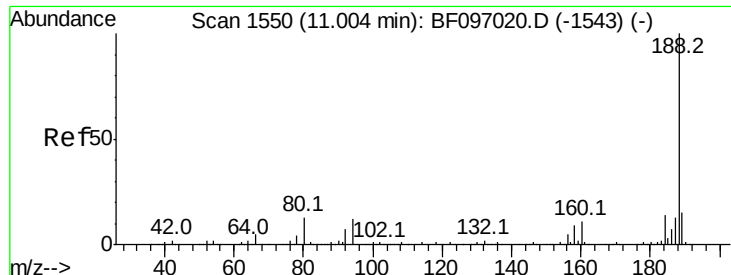
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#49  
Dimethylphthalate  
Concen: 5.944 ng  
RT: 9.26 min Scan# 1253  
Delta R.T. -0.02 min  
Lab File: BF097046.D  
Acq: 25 Jul 2017 23:12

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 104805 |       |       |
| 194     | 3.0   |        | 2.6   | 4.0   |
| 164     | 10.0  |        | 8.4   | 12.6  |





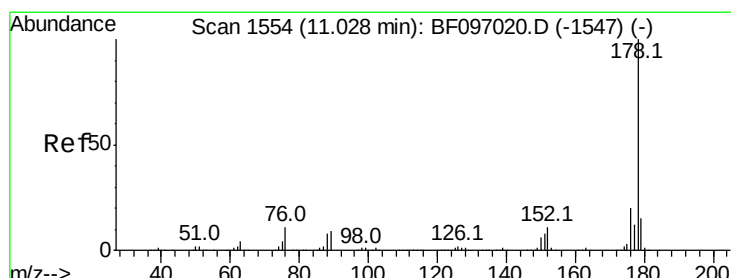
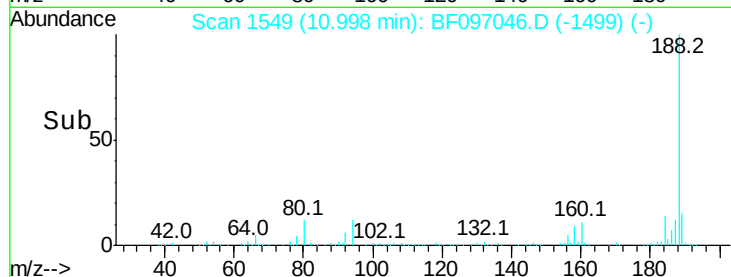
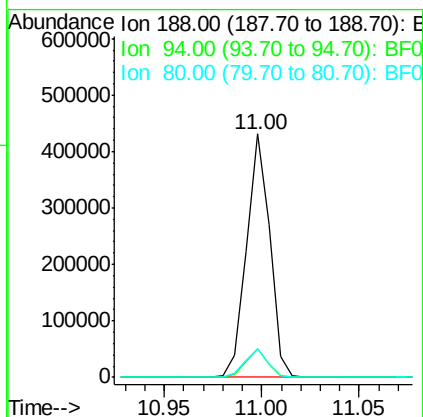
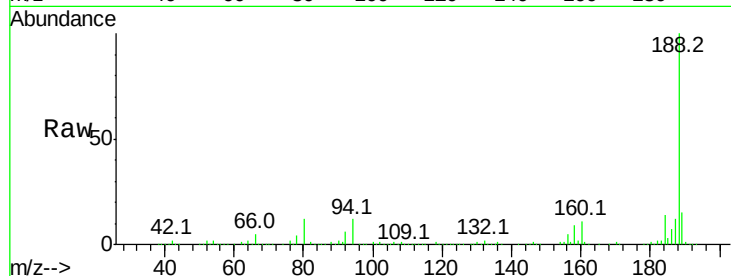
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.00 min Scan# 1549  
 Delta R.T. -0.01 min  
 Lab File: BF097046.D  
 Acq: 25 Jul 2017 23:12

Instrument :  
 BNA\_F  
 ClientSampled :  
 S-1

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   |      |       |       |
| 94      | 11.6  |      | 9.4   | 14.2  |
| 80      | 11.5  |      | 10.2  | 15.2  |

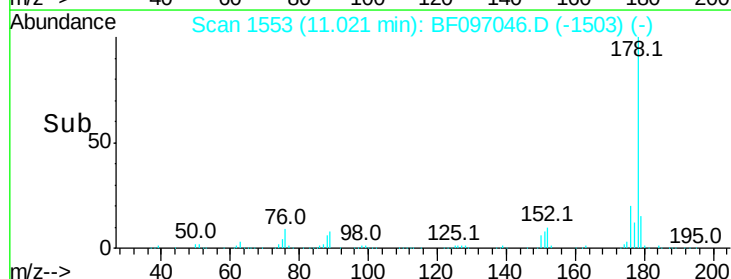
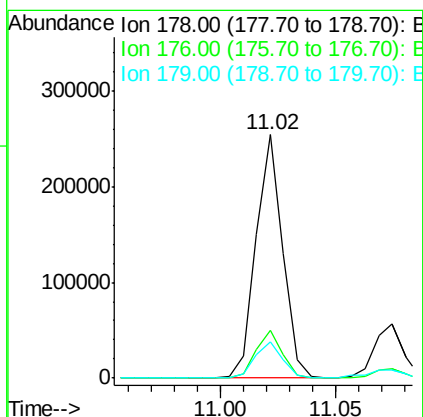
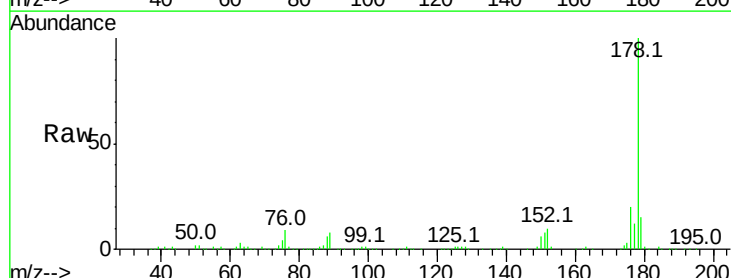
Manual Integrations  
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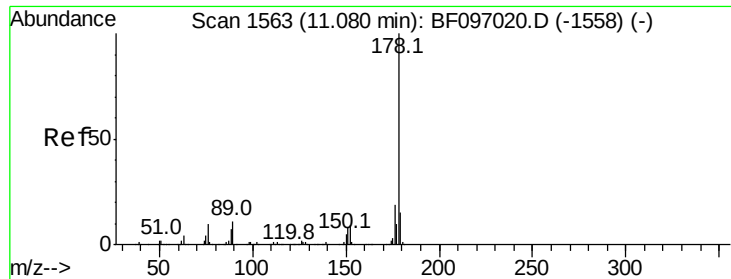


#70  
 Phenanthrene  
 Concen: 10.762 ng  
 RT: 11.02 min Scan# 1553  
 Delta R.T. -0.01 min  
 Lab File: BF097046.D  
 Acq: 25 Jul 2017 23:12

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 178     | 100   |      |       |       |
| 176     | 19.9  |      | 16.2  | 24.4  |
| 179     | 14.7  |      | 12.6  | 19.0  |







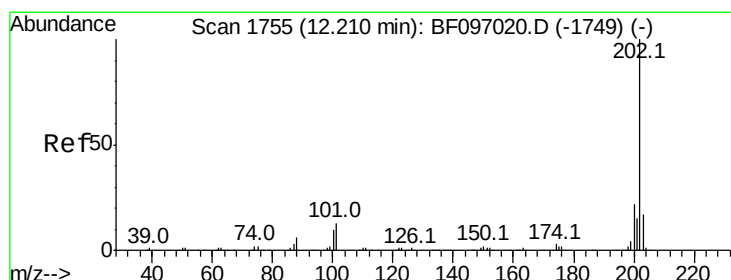
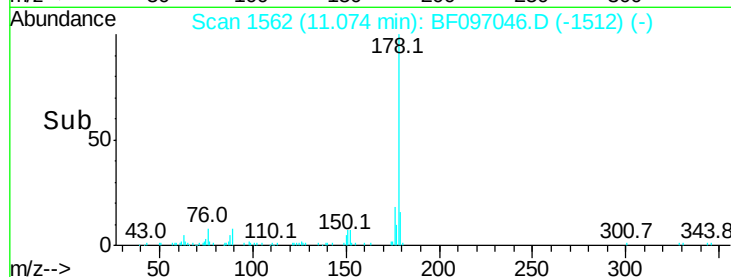
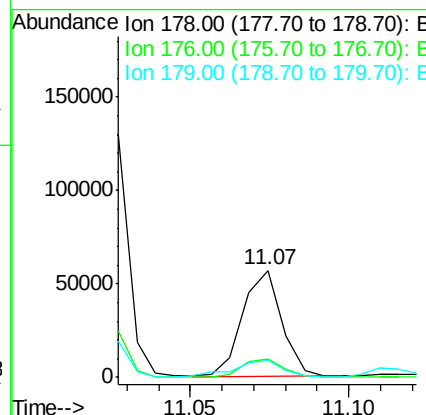
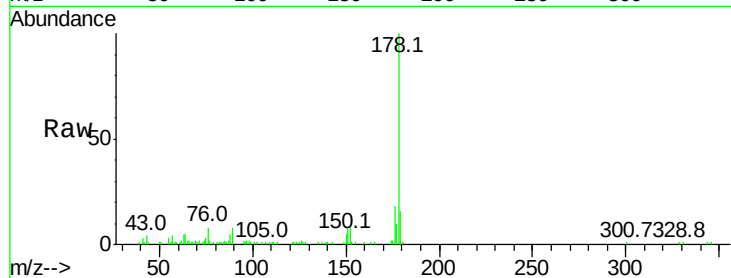
#71  
 Anthracene  
 Concen: 2.470 ng  
 RT: 11.07 min Scan# 1562  
 Delta R.T. -0.01 min  
 Lab File: BF097046.D  
 Acq: 25 Jul 2017 23:12

Instrument :  
 BNA\_F  
 ClientSampled :  
 S-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.7  | 15.8  | 23.8  |
| 179     | 15.6  | 12.7  | 19.1  |

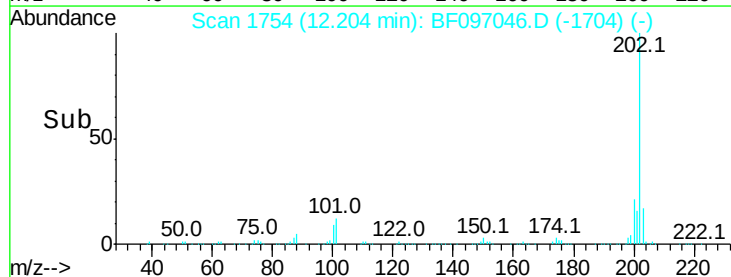
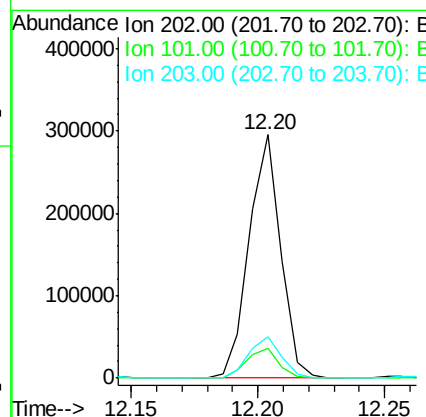
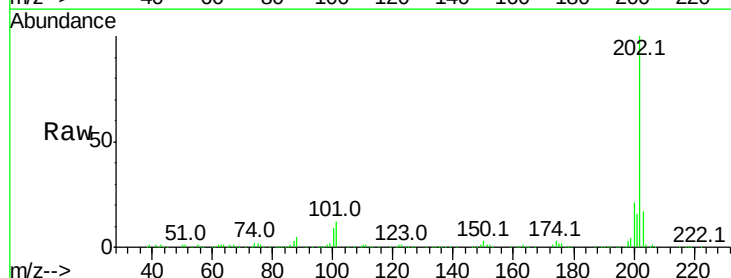
Manual Integrations  
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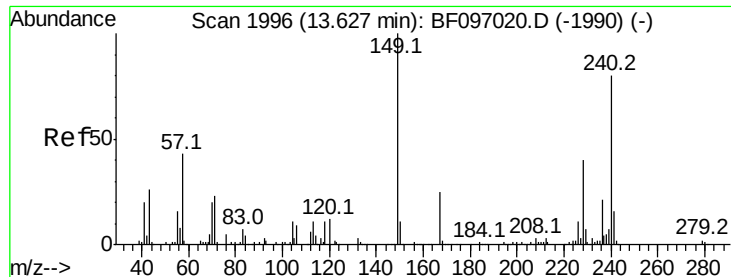
Sohil  
 7/26/2017 5:58:29 PM



#74  
 Fluoranthene  
 Concen: 13.591 ng  
 RT: 12.20 min Scan# 1754  
 Delta R.T. -0.01 min  
 Lab File: BF097046.D  
 Acq: 25 Jul 2017 23:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.4  | 0.0   | 33.2  |
| 203     | 17.0  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.62 min Scan# 1995

Delta R.T. -0.01 min

Lab File: BF097046.D

Acq: 25 Jul 2017 23:12

Instrument :

BNA\_F

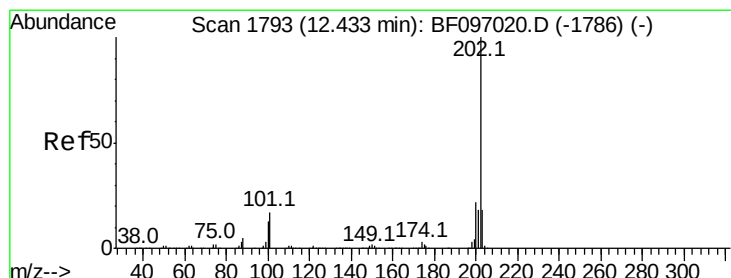
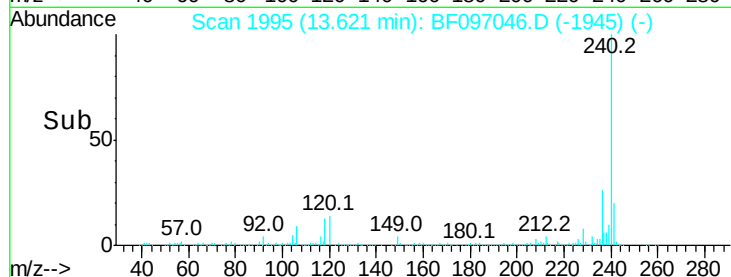
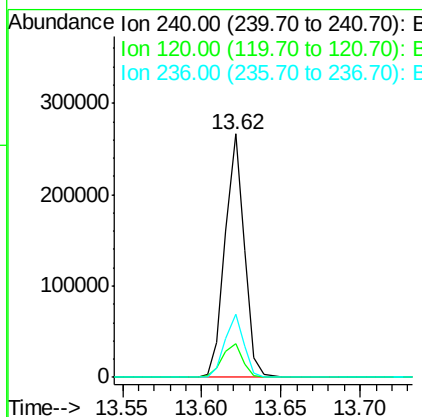
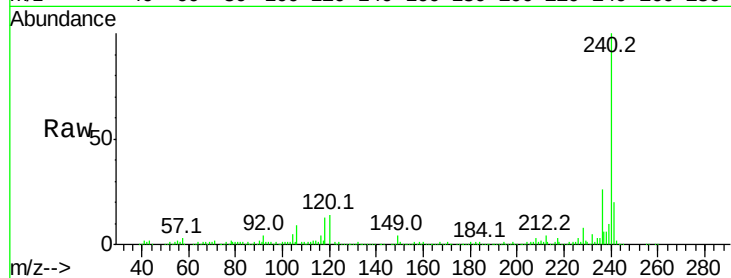
ClientSampled :

S-1

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 224790 |       |       |
| 120     | 13.6  | 5.8    | 8.8#  |       |
| 236     | 26.2  | 20.5   | 30.7  |       |

Manual Integrations  
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#77

Pyrene

Concen: 11.460 ng

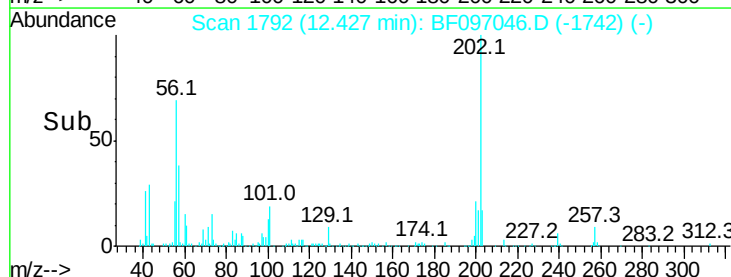
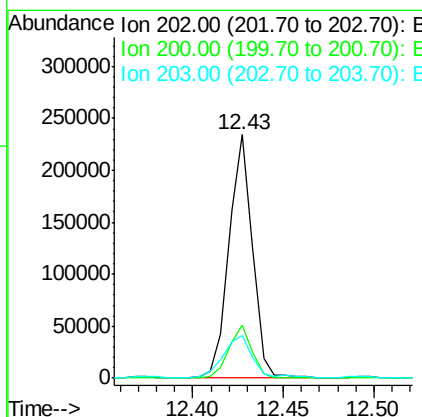
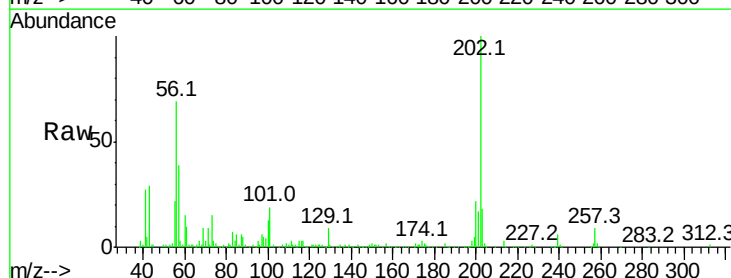
RT: 12.43 min Scan# 1792

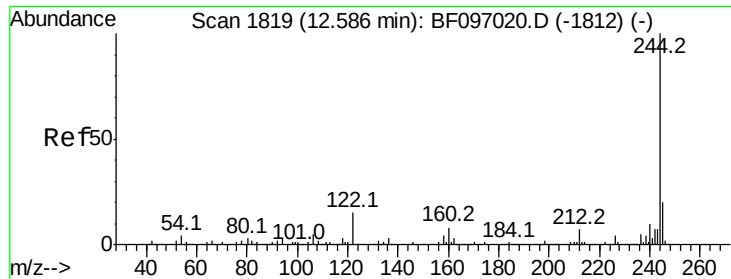
Delta R.T. -0.01 min

Lab File: BF097046.D

Acq: 25 Jul 2017 23:12

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 210898 |       |       |
| 200     | 21.5  | 17.6   | 26.4  |       |
| 203     | 17.7  | 14.4   | 21.6  |       |





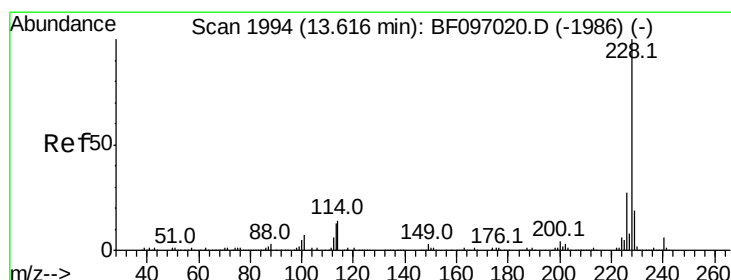
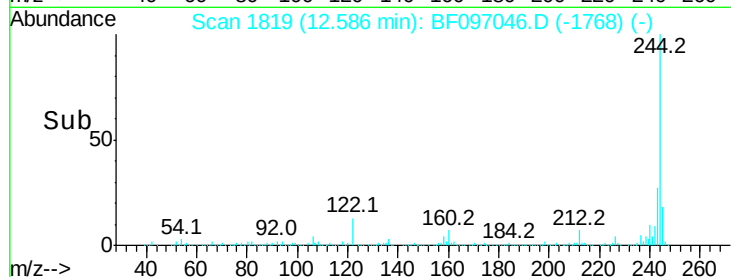
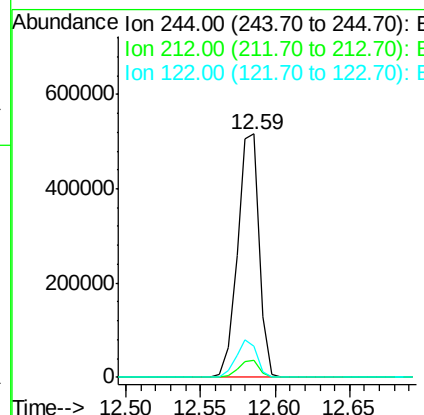
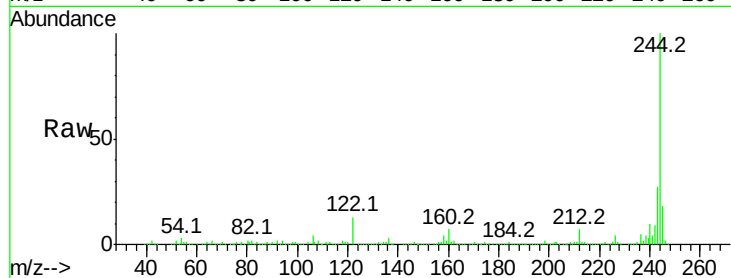
#78  
 Terphenyl-d14  
 Concen: 47.753 ng  
 RT: 12.59 min Scan# 1819  
 Delta R.T. -0.00 min  
 Lab File: BF097046.D  
 Acq: 25 Jul 2017 23:12

Instrument :  
 BNA\_F  
 ClientSampled :  
 S-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.8   | 6.0   | 9.0   |
| 122     | 12.9  | 10.3  | 15.5  |

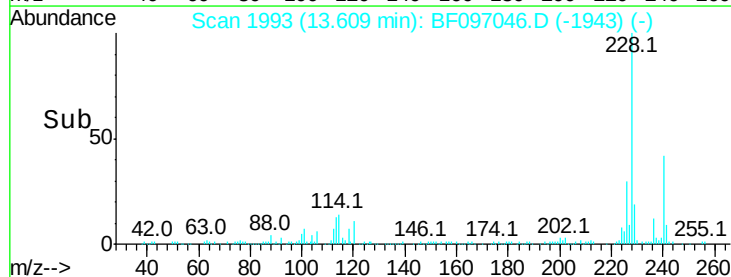
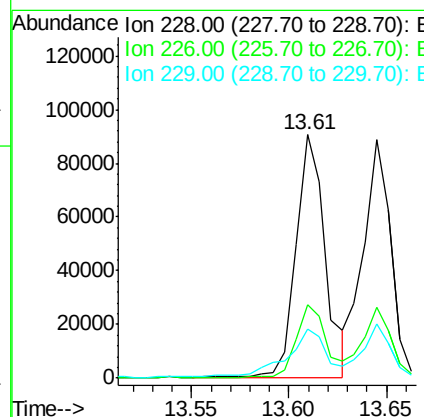
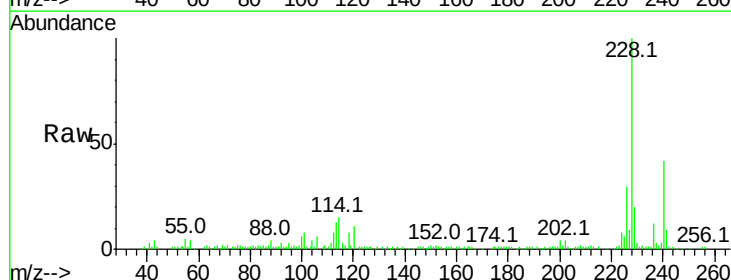
Manual Integrations  
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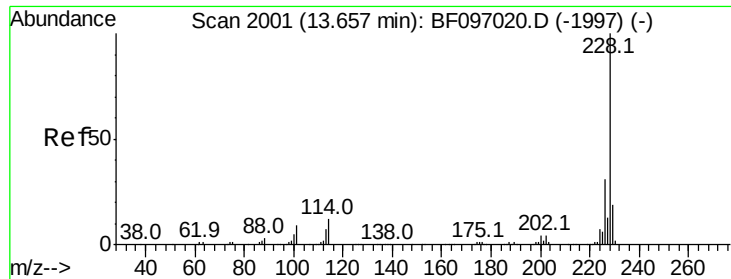
Sohil  
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#80  
 Benzo(a)anthracene  
 Concen: 6.524 ng  
 RT: 13.61 min Scan# 1993  
 Delta R.T. -0.01 min  
 Lab File: BF097046.D  
 Acq: 25 Jul 2017 23:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.1  | 22.6  | 33.8  |
| 229     | 20.4  | 16.3  | 24.5  |





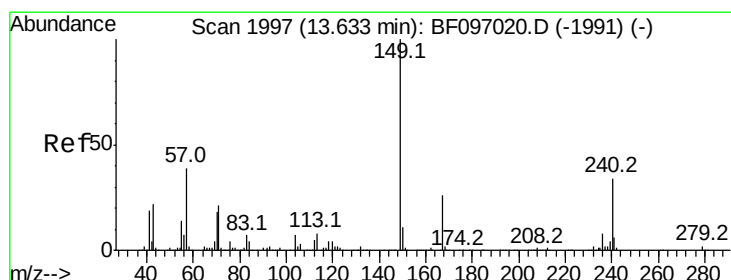
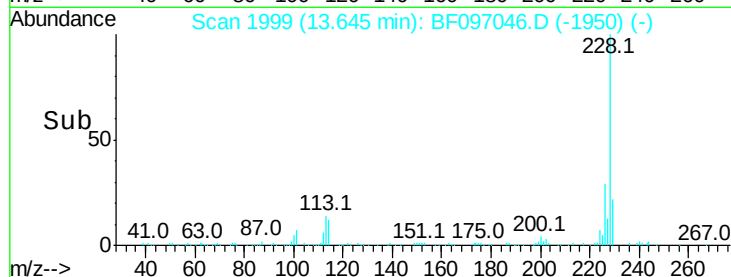
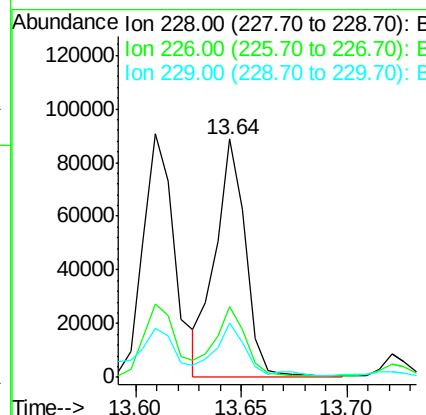
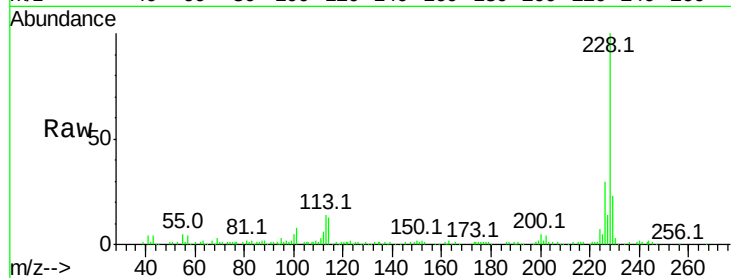
#82  
Chrysene  
Concen: 6.182 ng  
RT: 13.64 min Scan# 1999  
Delta R.T. -0.01 min  
Lab File: BF097046.D  
Acq: 25 Jul 2017 23:12

Instrument :  
BNA\_F  
ClientSampled :  
S-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.7  | 24.9  | 37.3  |
| 229     | 22.8  | 15.8  | 23.6  |

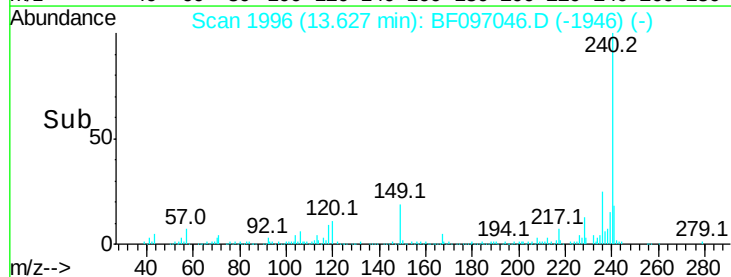
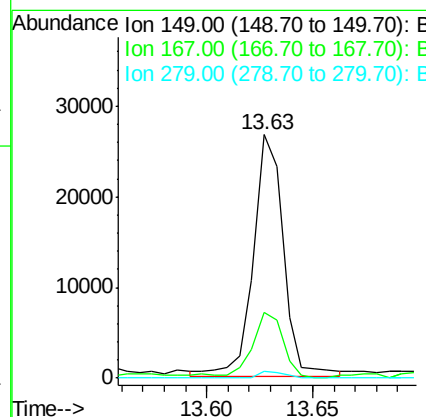
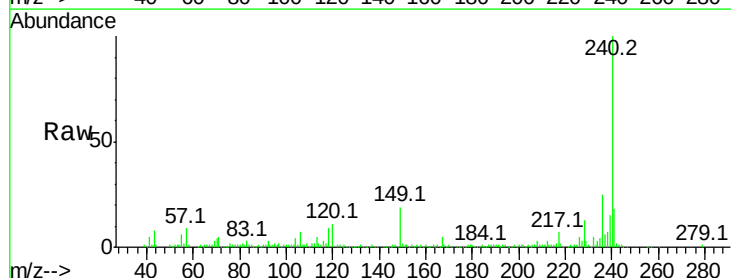
Manual Integrations  
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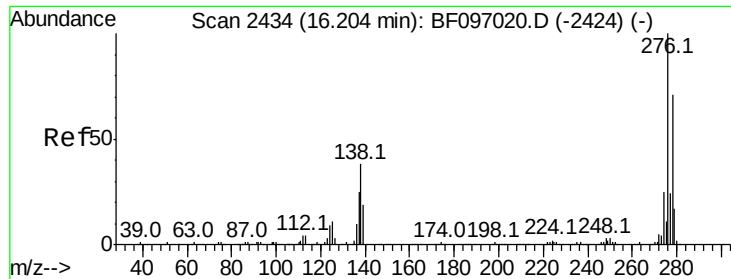
Sohil  
7/26/2017 5:58:29 PM



#83  
Bis(2-ethylhexyl)phthalate  
Concen: 2.146 ng m  
RT: 13.63 min Scan# 1996  
Delta R.T. -0.01 min  
Lab File: BF097046.D  
Acq: 25 Jul 2017 23:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 27.2  | 21.0  | 31.4  |
| 279     | 2.8   | 1.9   | 2.9   |





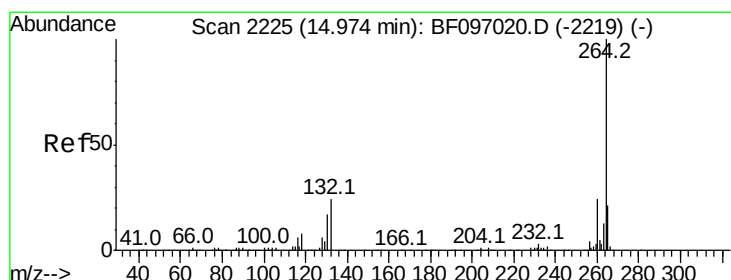
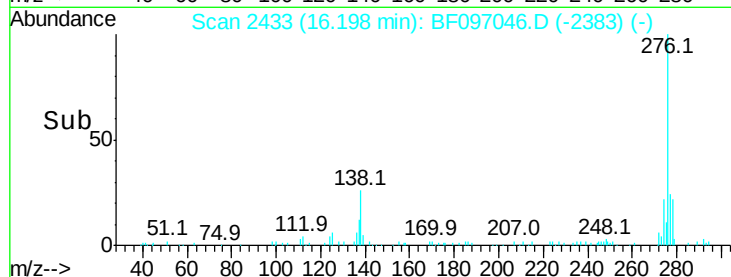
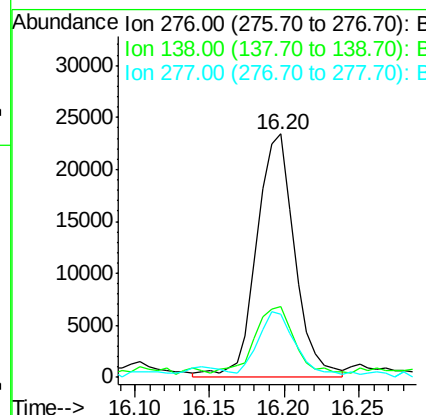
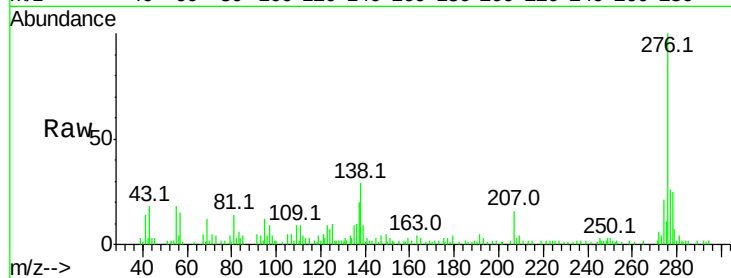
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 3.399 ng  
RT: 16.20 min Scan# 2433  
Delta R.T. -0.01 min  
Lab File: BF097046.D  
Acq: 25 Jul 2017 23:12

Instrument :  
BNA\_F  
ClientSampled :  
S-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 28.5  | 27.8  | 41.6  |
| 277     | 24.3  | 20.2  | 30.4  |

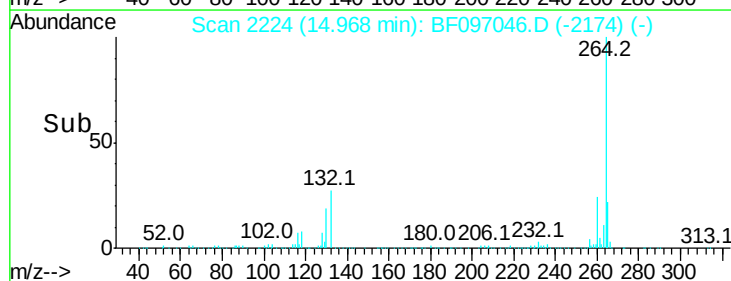
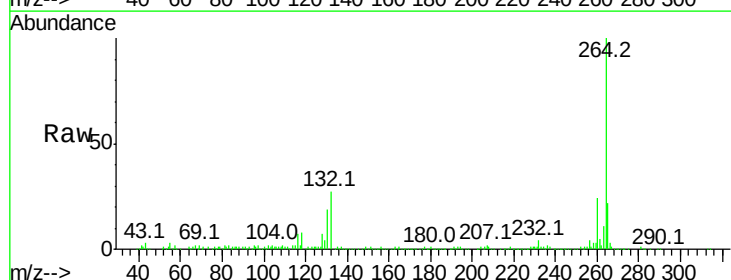
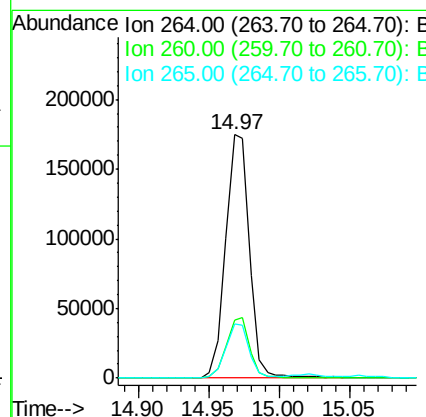
Manual Integrations  
APPROVED

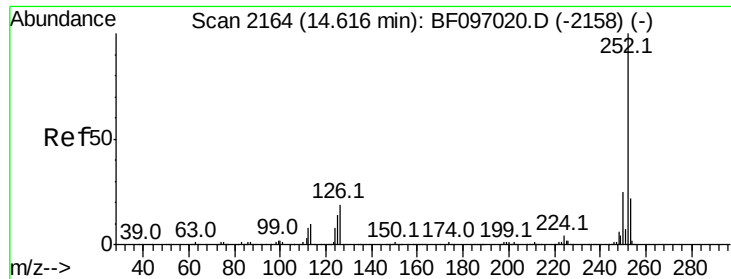
Sohil  
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 14.97 min Scan# 2224  
Delta R.T. -0.01 min  
Lab File: BF097046.D  
Acq: 25 Jul 2017 23:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 19.5  | 29.3  |
| 265     | 22.2  | 17.2  | 25.8  |





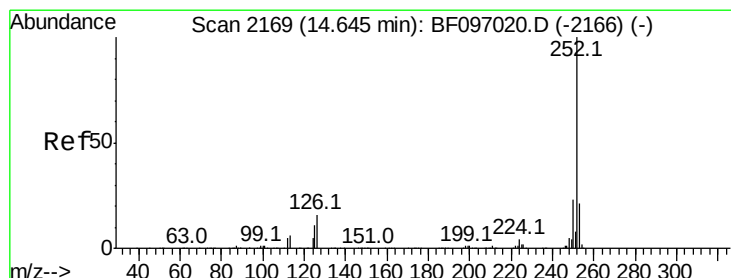
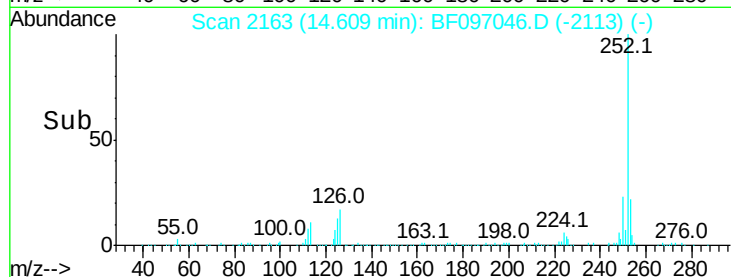
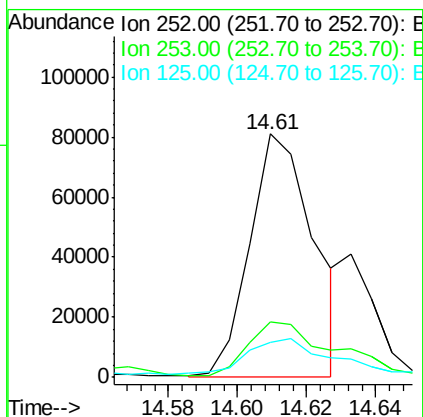
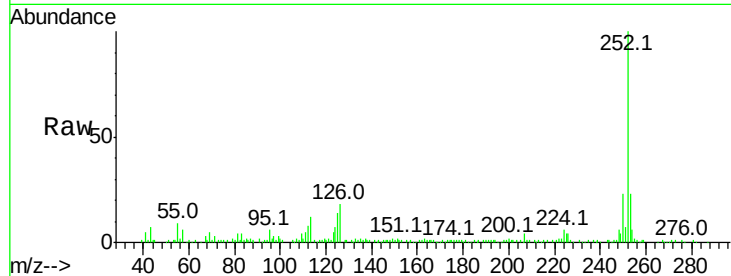
#87  
Benzo(b)fluoranthene  
Concen: 8.490 ng m  
RT: 14.61 min Scan# 2163  
Delta R.T. -0.01 min  
Lab File: BF097046.D  
Acq: 25 Jul 2017 23:12

Instrument :  
BNA\_F  
ClientSampled :  
S-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 18.1  | 27.1  |
| 125     | 14.4  | 9.8   | 14.8  |

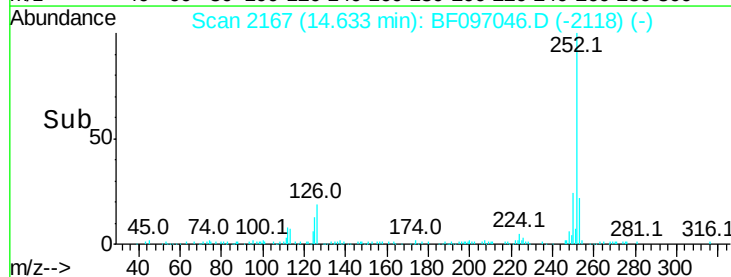
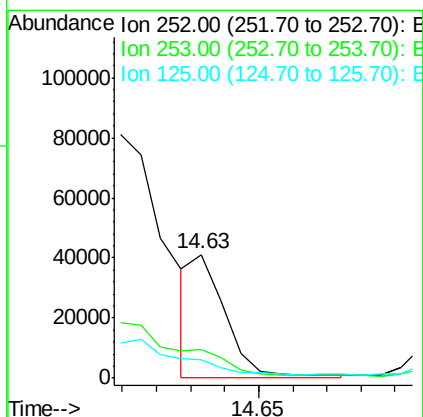
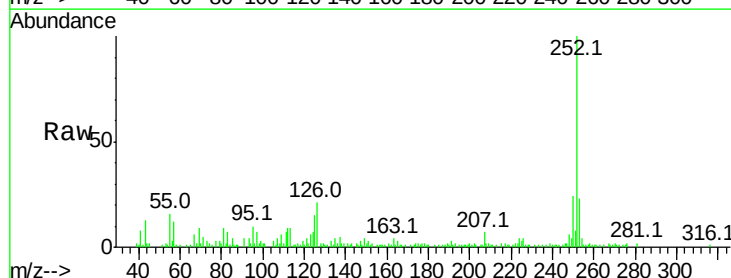
Manual Integrations  
APPROVED

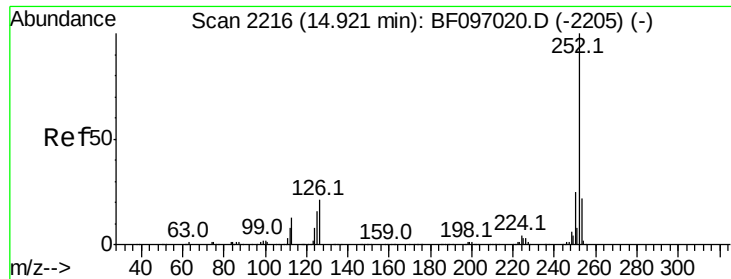
Sohil  
7/26/2017 5:58:29 PM



#88  
Benzo(k)fluoranthene  
Concen: 2.494 ng m  
RT: 14.63 min Scan# 2167  
Delta R.T. -0.01 min  
Lab File: BF097046.D  
Acq: 25 Jul 2017 23:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 18.4  | 27.6  |
| 125     | 15.0  | 13.1  | 19.7  |





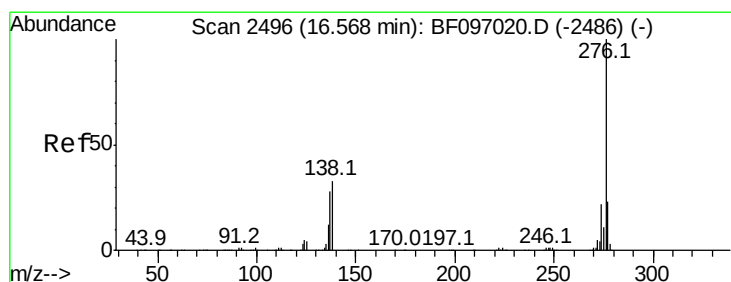
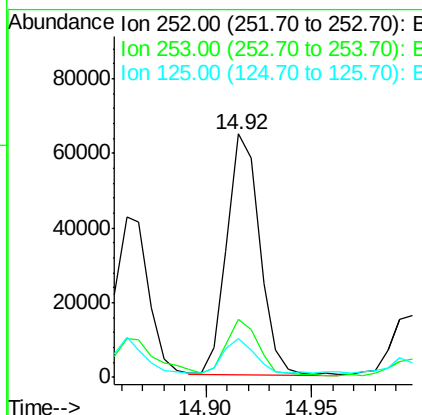
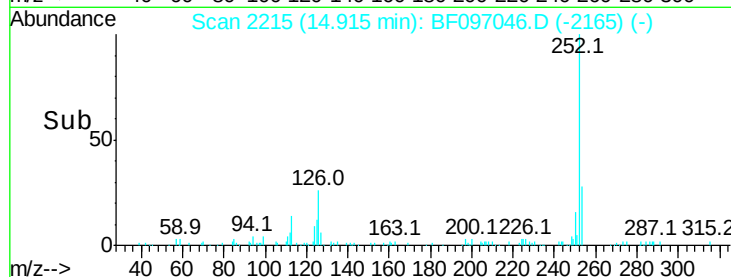
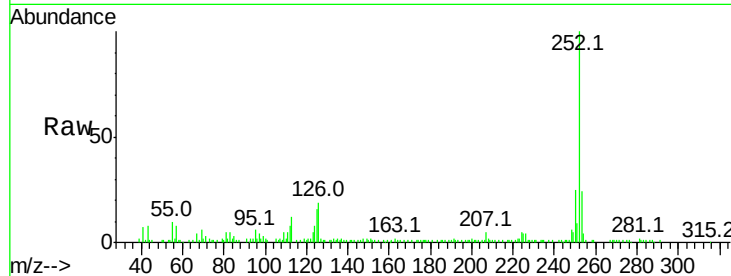
#89  
Benzo(a)pyrene  
Concen: 6.193 ng  
RT: 14.92 min Scan# 2215  
Delta R.T. -0.01 min  
Lab File: BF097046.D  
Acq: 25 Jul 2017 23:12

Instrument :  
BNA\_F  
ClientSampled :  
S-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 17.5  | 26.3  |
| 125     | 15.7  | 11.0  | 16.4  |

Manual Integrations  
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#91  
Benzo(g,h,i)perylene  
Concen: 3.894 ng  
RT: 16.56 min Scan# 2494  
Delta R.T. -0.01 min  
Lab File: BF097046.D  
Acq: 25 Jul 2017 23:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.7  | 18.6  | 28.0  |
| 138     | 38.9  | 25.4  | 38.0  |

